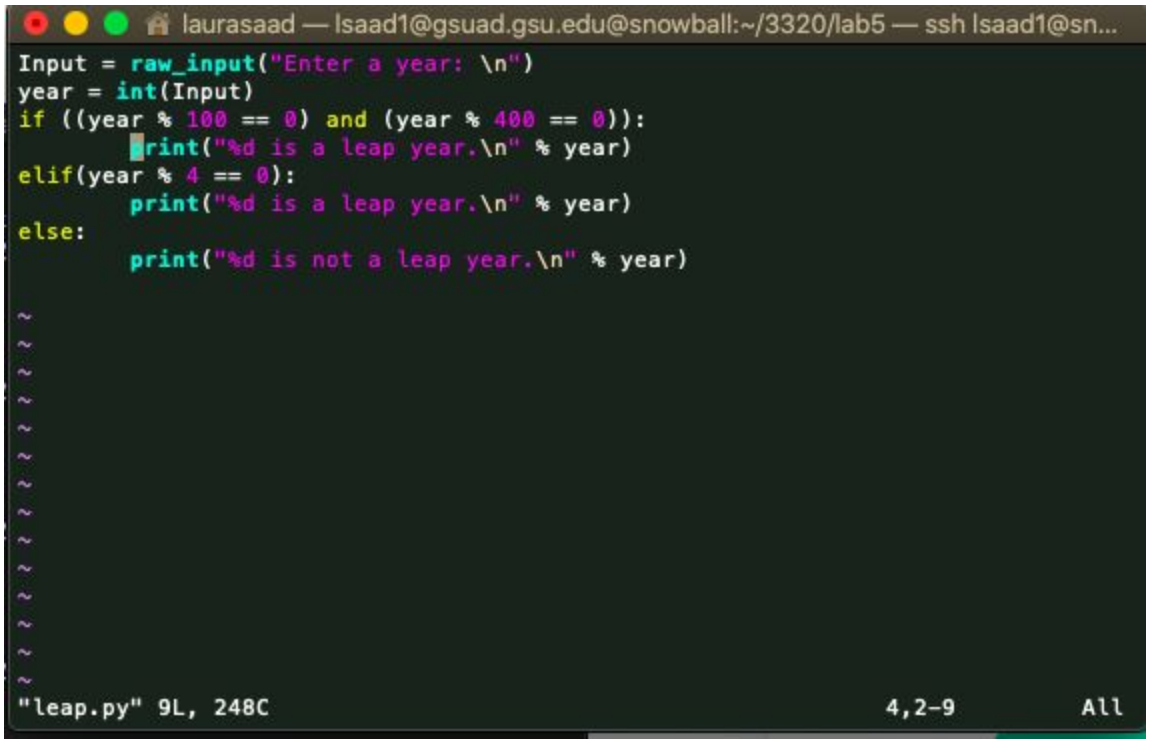
1. Input

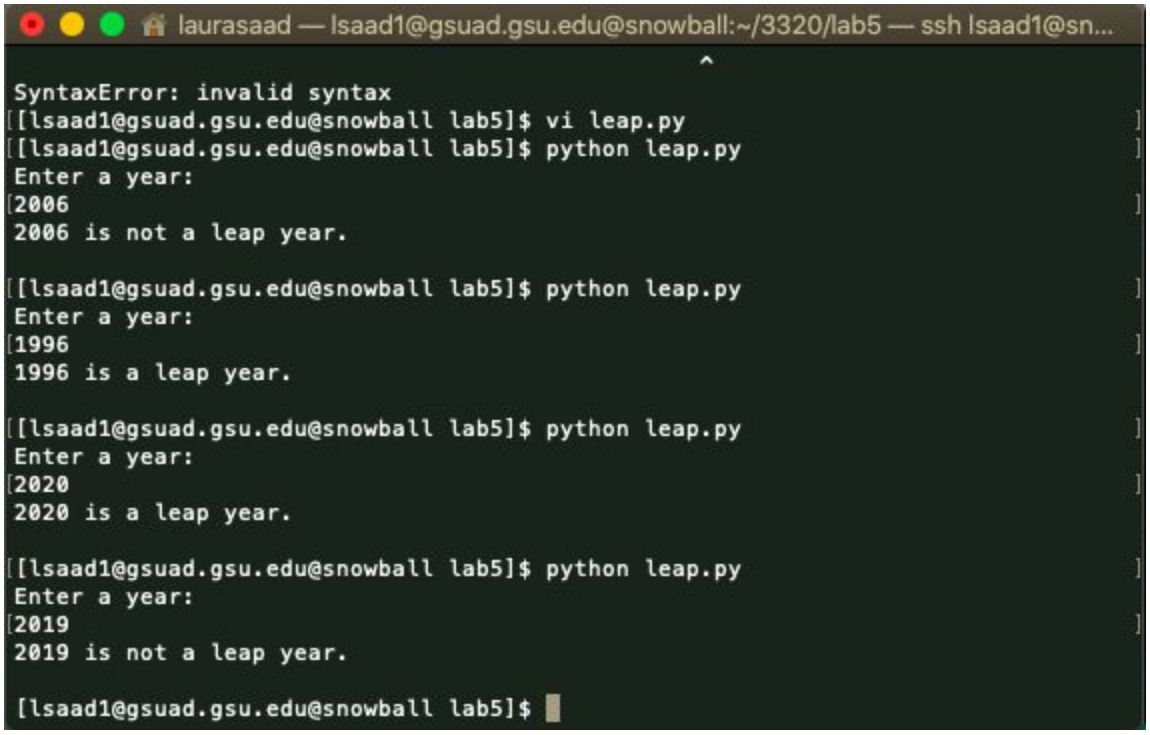
```
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ vi input.py
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ more input.py
enter = raw_input(" Enter a string: ");
print(enter)

[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python input.py
[ Enter a string: hello my name is laura
hello my name is laura
[lsaad1@gsuad.gsu.edu@snowball lab5]$
```

2. Integer Input

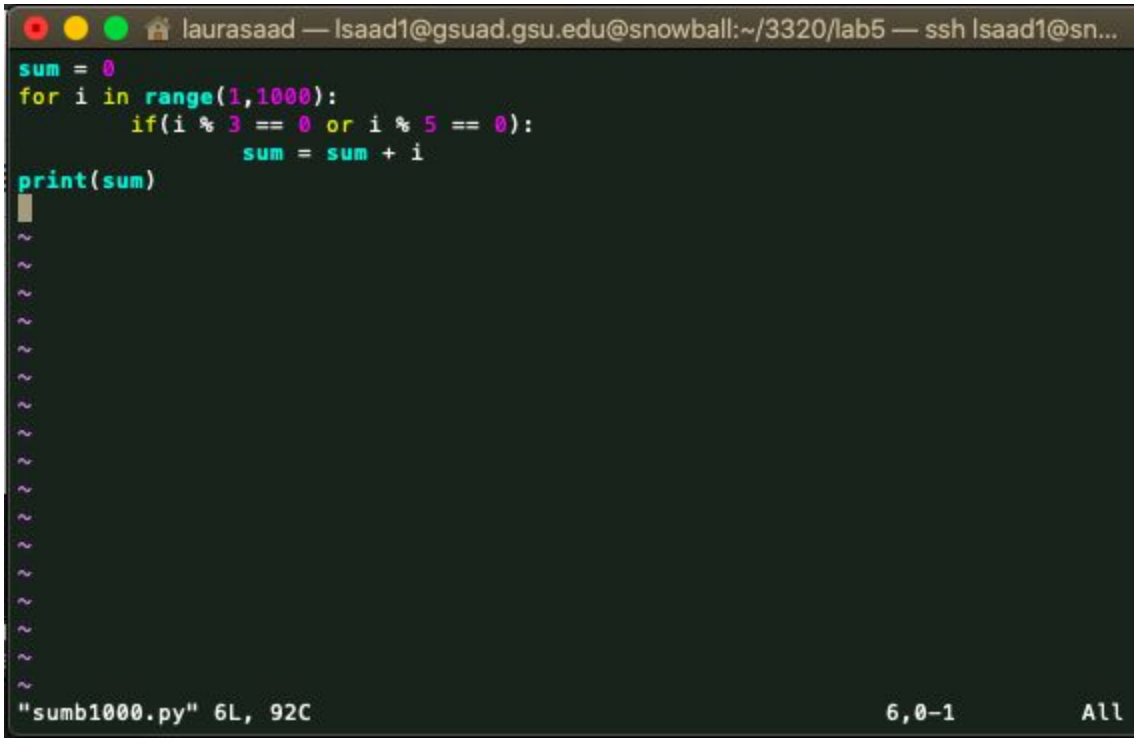
```
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ more integer.py
Input = raw_input("Enter a number: \n ")
print(Input)
print("input type")
print(type(Input))
try:
        a = int(Input)
        print("number conversion: \n")
        print(a)
        print("converted to type:")
        print(type(a))
except:
        print("Sorry, not an INT")



[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python integer.py
Enter a number:
[ 20
20
input type
<type 'str'>
number conversion:

20
converted to type:
<type 'int'>
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python integer.py
Enter a number:
[ twenty
twenty
input type
<type 'str'>
Sorry, not an INT
[lsaad1@gsuad.gsu.edu@snowball lab5]$
```

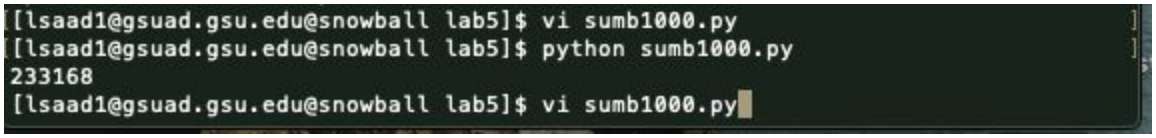
3.Leap Year


laurasaad — lsaad1@gsuad.gsu.edu@snowball:~/3320/lab5 — ssh lsaad1@sn...
Input = raw_input("Enter a year: \n")
year = int(Input)
if ((year % 100 == 0) and (year % 400 == 0)):
print("%d is a leap year.\n" % year)
elif(year % 4 == 0):
print("%d is a leap year.\n" % year)
else:
print("%d is not a leap year.\n" % year)
"leap.py" 9L, 248C
4,2-9
All


laurasaad — lsaad1@gsuad.gsu.edu@snowball:~/3320/lab5 — ssh lsaad1@sn...
SyntaxError: invalid syntax
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ vi leap.py
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python leap.py
Enter a year:
[2006
2006 is not a leap year.
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python leap.py
Enter a year:
[1996
1996 is a leap year.
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python leap.py
Enter a year:
[2020
2020 is a leap year.
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python leap.py
Enter a year:
[2019
2019 is not a leap year.
[lsaad1@gsuad.gsu.edu@snowball lab5]$

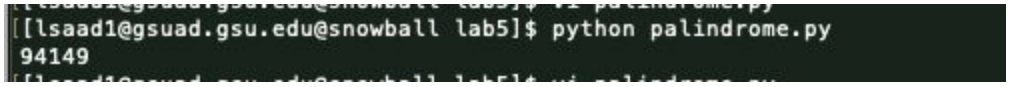
4.Sum all the integers below 1000 that are multiples of 3 or 5





.

5.Palidonrome



6.Say

laurasaad — lsaad1@gsuad.gsu.edu@snowball:~/3320/lab5 — ssh lsaad1@snowball.cs.gsu.edu — 100...

```
oneTo9 = ['zero','one','two','three','four','five','six','seven','eight','nine']
elevento19 = ['eleven','twelve','thirteen','fourteen','fifteen','sixteen',
'seventeen','eighteen','nineteen']
tens = ['ten','twenty','thirty','forty','fifty','sixty','seventy','eighty',
'ninety','one hundred']

number = input('Enter number: ')
number = int(number)
if number < 10:
        print("Number is: ", oneTo9[number])
elif number < 20 and number > 10:
        print("Number is: ", elevento19[number % 10 - 1])
elif number % 10 == 0:
        print("Number is: ",tens[int(number / 10)-1])
else:
        tens = tens[int(number / 10) -1]
        oneTo9 = oneTo9[number  % 10]
        print tens, "-" ,oneTo9
~
~
~
~
~
~
~
~
~
~
~
```

```
[Enter number: 100
 ('Number is: ', 'one hundred')
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ vi say.py
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python say.py
[Enter number: 80
 ('Number is: ', 'eighty')
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ vi say.py
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python say.py
[Enter number: 50
 ('Number is: ', 'fifty')
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ vi say.py
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python say.py
[Enter number: 35
 thirty - five
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python say.py
[Enter number: 55
 fifty - five
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python say.py
[Enter number: 91
 ninety - one
 [lsaad1@gsuad.gsu.edu@snowball lab5]$
```

7.Unsay

laurasaad — lsaad1@gsuad.gsu.edu@snowball:~/3320/lab5 — ssh lsaad1@snowball.cs.gsu.edu — 100...

```
OneTo9 = ['zero','one','two','three','four','five','six','seven','eight','nine']
elevenTo19 = ['eleven','twelve','thirteen','fourteen','fifteen','sixteen',
'seventeen','eighteen','nineteen']
tens = ['ten','twenty','thirty','forty','fifty','sixty','seventy','eighty',
'ninety']

def find(str):
  try:
    temp = OneTo9.index(str)
  except:
    try:
      temp = elevenTo10.index(str)+11
    except:
      temp = tens.index(str)+1
      temp = temp * 10
  return temp;

number=raw_input('Enter a string number: ')
number=number.split(' ')
n = len(number)
if( n == 1):
  num1 = find(number[0])
  print(num1)
else:
  num1 = find(number[0])
  num2 = find(number[1])
  print( num1 + num2)

~
~
~
~
~
~
```

```
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ vi unsay.py
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python unsay.py
[Enter a string number: fifty
 50
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ ninety five
 -bash: ninety: command not found
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python unsay.py
[Enter a string number: ninety five
 95
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python unsay.py
[Enter a string number: seventy nine
 79
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ fifty nine
 -bash: fifty: command not found
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python unsay.py
[Enter a string number: fifty nine
 59
 [lsaad1@gsuad.gsu.edu@snowball lab5]$
```

8. Multiply By Words

laurasaad — lsaad1@gsuad.gsu.edu@snowball:~/3320/lab5 — ssh lsaad1@snowball.cs.gsu.edu — 100...

```
OneTo9 = ['zero','one','two','three','four','five','six','seven','eight','nine']
elevenTo19 = ['eleven','twelve','thirteen','fourteen','fifteen','sixteen',
'seventeen','eighteen','nineteen']
tens = ['ten','twenty','thirty','forty','fifty','sixty','seventy','eighty',
'ninety','one hundred']

def find(str):
  try:
    temp = OneTo9.index(str)
  except:
    try:
      temp = elevenTo19.index(str)+11
    except:
      temp=tens.index(str)+1
      temp=temp * 10
  return temp;

firstNumber=raw_input('Enter a number in string below 100: ')
secNumber=raw_input('Enter a number in string below 100: ')
firstNumber = firstNumber.split('-')
n = len(firstNumber)
if(n==1):
  firstNumber = find(firstNumber[0])
else:
  temp1 = find(firstNumber[0])
  temp2 = find(firstNumber[1])
  firstNumber = temp1 + temp2

secNumber=secNumber.split('-')
n2 = len(secNumber)
if(n2==1):
  secNumber = find(secNumber[0])
else:
  temp3 = find(secNumber[0])
  temp4 = find(secNumber[1])
  secNumber = temp3 + temp4

total = firstNumber * secNumber
print firstNumber, '*', secNumber, '=' , total



"MulByWords.py" 42L, 1075C                                    39,1          All
```

```
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ vi MulByWords.py
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python MulByWords.py
[Enter a number in string below 100: fifty
[Enter a number in string below 100: fifty
50 * 50 = 2500
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python MulByWords.py
[Enter a number in string below 100: twenty
[Enter a number in string below 100: thirty
20 * 30 = 600
[[lsaad1@gsuad.gsu.edu@snowball lab5]$ python MulByWords.py
[Enter a number in string below 100: fifty
[Enter a number in string below 100: five
50 * 5 = 250
[lsaad1@gsuad.gsu.edu@snowball lab5]$
```